1870MNRAS..30..150M

tageous that the eyes should be kept in darkness for some time before totality commenced.

Are observers to be found who, supposing the circumstances of the coming eclipse to be favourable, will be ready to forego the opportunity of witnessing one of the grandest of all natural phenomena, of watching the gathering shadows, of beholding the wonderful transformation of the face of nature, the weird and unearthly aspect of all things round them, and the strange beauty of the solar corona of glory, in order that they may devote all their observing energies during two short minutes to important, but severally uninteresting, phenomena? We know that, so far as the period of totality is concerned, such a sacrifice has already been made by De La Rue and Tennant, by Secchi, Janssen, Lieut. Herschel, Young, and a number of other lovers of science; but no observer has yet foregone the whole spectacle of a total eclipse for the sake of the dull, dry details of scientific observation.

Ephemeris of the Satellites of Uranus. By A. Marth, Esq.

Angles of Position at 8h Greenwich Mean Time.

1870.		Ariel.	Umbriel.	Titania.	Oberon.
		°	°	°	°
Feb.	18	152	70	317	161
	19	3	346	272	137
	20	217	258	223	109
	21	79	172	185	77
	22	303	85	150	46
	23	157	357	108	19
	24	8	273	60	357
	25	223	182	17	334
	26	87	100	342	309
	27	309	7	305	281
	28	162	288	257	248
Mar.	1	13	193	211	218
	2	229	114	174	193
	3	93	18	139	170
	4	314	301	95	148
	5	167	204	46	122
	6	18	128	7	92
	7	236	30	332	60
	8	100	314	292	31
	9	320	216	242	7
	10	172	140	200	345
	11	24	42	165	321

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1870.	Ariel.	Umbriel.	Titania.	Oberon.
	°	°	°	°
12	243	325	127	294
13	107	229	80	263
14	325	151	33	232
15	176	56	357	204
16	29	336	321	181
17	250	243	277	159
18	114	162	229	135
19	330	71	189	106
20	181	347	154	75
21	35	257	114	44
22	256	172	65	18
23	120	86	22	355
24	335	357	346	333
25	186	274	310	308
26	41	182	263	278
27	264	101	216	246
28	126	8	179	216
29	340	288	144	192
30	191	193	100	169
31	47	115	51	146
Apr. 1	271	19	11	120
2	132	302	336	90
3	345	205	297	58
4	196	128	249	29
5	53	31	204	5
6	278	314	169	343
7	137	217	132	320
8	350	141	86	293

The Apparent Distances vary between the Limits

Ariel	15″	and	12″
Umbriel	21		16
Titania	35		27
Oberon	46		36

The Zodiacal Light. By Capt. Noble.

On the evening of March 3rd, from $7^h\ 40^m$ to 8^h, L.M.T., this phenomenon was much brighter and more conspicuous than I have ever seen it before, surpassing in vividness that part of the Milky Way running through *Cepheus* and *Cygnus*, which was, of course, favourably situated for comparison. It is stated in most of the popular books on Astronomy, that the axis of the

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